

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/IB2004/050941

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H04L12/28 H04L12/56 H04L7/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|----------------------------|
| P,X | WO 03/094417 A (ATHEROS COMM INC) 13 November 2003 (2003-11-13) abstract page 2, line 19 - page 4, line 8 page 5, line 15 - page 6, line 2 page 10, line 1 - page 13, line 22 page 14, line 13 - page 15, line 16 page 17, line 9 - page 20, line 16 figures 2-5,7-9 | 1-22 |
| P,X | WO 03/084119 A (ADVANCED MICRO DEVICES INC) 9 October 2003 (2003-10-09) page 1, line 3 - page 5, line 6 page 6, line 4 - page 9, line 35 figures 9-11 ----- -/- | 1-7, 11-13, 18,19,22 |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

21 September 2004

Date of mailing of the international search report

30/09/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Carballo da Costa, E

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/050941

| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|--|---|-----------------------|
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| A | <p>"Supplement to IEEE Standard for Information technology. Part 11: Wireless LAN Medium Access Control(MAC) and Physical Layer (PHY) specifications: Higher-Speed Physical Layer Extension in the 2.4 GHz Band"</p> <p>IEEE STD 802.11B-1999, XX, XX, 20 January 2000 (2000-01-20), pages 1-90, XP002189756</p> <p>18.2.2.1 Long PLCP PPDU format</p> <p>18.2.2.2 Short PLCP PPDU format</p> <p>18.2.3.1 Long PLCP SYNC field</p> <p>18.2.3.8 Short PLCP synchronization</p> <p>18.2.6 PLCP receive procedure</p> <p>-----</p> | 1-22 |
| A | <p>EP 1 191 730 A (LUCENT TECHNOLOGIES INC)</p> <p>27 March 2002 (2002-03-27)</p> <p>abstract</p> <p>page 2, paragraph 1 - paragraph 14</p> <p>page 3, paragraph 16 - paragraph 22</p> <p>page 4, paragraph 29 - page 5, paragraph 36</p> <p>-----</p> | 1-22 |
| P,A | <p>US 2003/147374 A1 (CHEN PO-HUNG ET AL)</p> <p>7 August 2003 (2003-08-07)</p> <p>abstract</p> <p>page 1, paragraph 3 - page 2, paragraph 15</p> <p>page 2, paragraph 25 - page 3, paragraph 33</p> <p>-----</p> | 1-22 |
| A | <p>EP 0 851 603 A (LUCENT TECHNOLOGIES INC)</p> <p>1 July 1998 (1998-07-01)</p> <p>cited in the application</p> <p>column 3, line 20 - column 4, line 33</p> <p>-----</p> | 1-22 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/IB2004/050941

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|----|---------------------|----------------------------|---------------------|
| WO 03094417 | A | 13-11-2003 | WO 03094417 A1 | 13-11-2003 |
| WO 03084119 | A | 09-10-2003 | DE 10214063 A1 | 23-10-2003 |
| | | | WO 03084119 A1 | 09-10-2003 |
| | | | US 2003185194 A1 | 02-10-2003 |
| EP 1191730 | A | 27-03-2002 | EP 1191730 A1 | 27-03-2002 |
| | | | US 2002048317 A1 | 25-04-2002 |
| US 2003147374 | A1 | 07-08-2003 | DE 10300786 A1 | 28-08-2003 |
| EP 0851603 | A | 01-07-1998 | US 6115411 A | 05-09-2000 |
| | | | CA 2221910 A1 | 30-06-1998 |
| | | | DE 69730107 D1 | 09-09-2004 |
| | | | EP 0851603 A2 | 01-07-1998 |
| | | | JP 10209920 A | 07-08-1998 |